

by spraying these slurry solutions onto heated substrates so as to deposit particles by slurry spraying, and simultaneously by co-depositing  $\text{Cu}_x\text{O}$  by spray pyrolysis so as to partially intercalate the particles.

Although this invention is described with respect to a set of preferred aspects and embodiments, modifications thereto will be apparent to those skilled in the art. Therefore, the scope of the invention is to be determined by reference to the claims which follow. Throughout the text and the claims, use of the word "about" in relation to a range of numbers is intended to modify both the low and the high values stated.